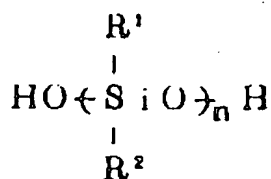


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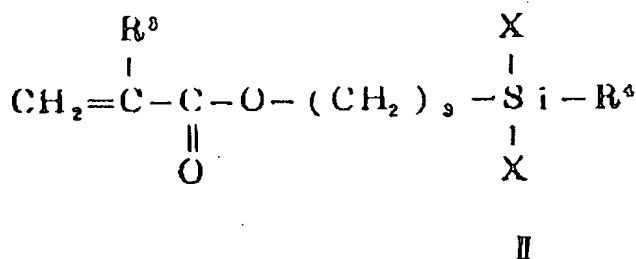


APPLICANT : TOAGOSEI CHEM IND CO LTD;

INVENTOR : KATO HIROYUKI;

INT.CL. : C08F299/02 C08F220/02

TITLE : PREPARATION OF GRAFT  
 COPOLYMER BY RADICAL  
 COPOLYMERIZATION



ABSTRACT : PURPOSE: To obtain easily the titled copolymer having stability to hydrolysis, capable of controlling a molecular weight, by condensing a specific silicone with an acrylic compound to give an acryl modified silicone, copolymerizing it with a radically polymerizable monomer.

CONSTITUTION: In a solvent, a silicone (e.g.,  $\alpha,\omega$ -dihydroxy-dimethylpolysiloxane, etc.) shown by the formula I ( $\text{R}^1$  and  $\text{R}^2$  are 1-10C monofunctional aliphatic hydrocarbon, phenyl, or monofunctional halogenated hydrocarbon;  $n$  is  $\geq 1$ ) is condensed with an acrylic compound (e.g.,  $\gamma$ -methacryloxypropylmethyldichlorosilane, etc.) shown by the formula II ( $\text{R}^3$  is H or methyl;  $\text{R}^4$  is methyl, ethyl, or phenyl; X is Cl, methoxy, or ethoxy) to give an acryl modified silicone. 10-90pts.wt. acryl modified silicone is copolymerized with 90-10pts.wt. radically polymerizable monomer (e.g., styrene, etc.) in the presence of a polymerization initiator (e.g., azobisisobutyronitrile, etc.).

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